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Google earth



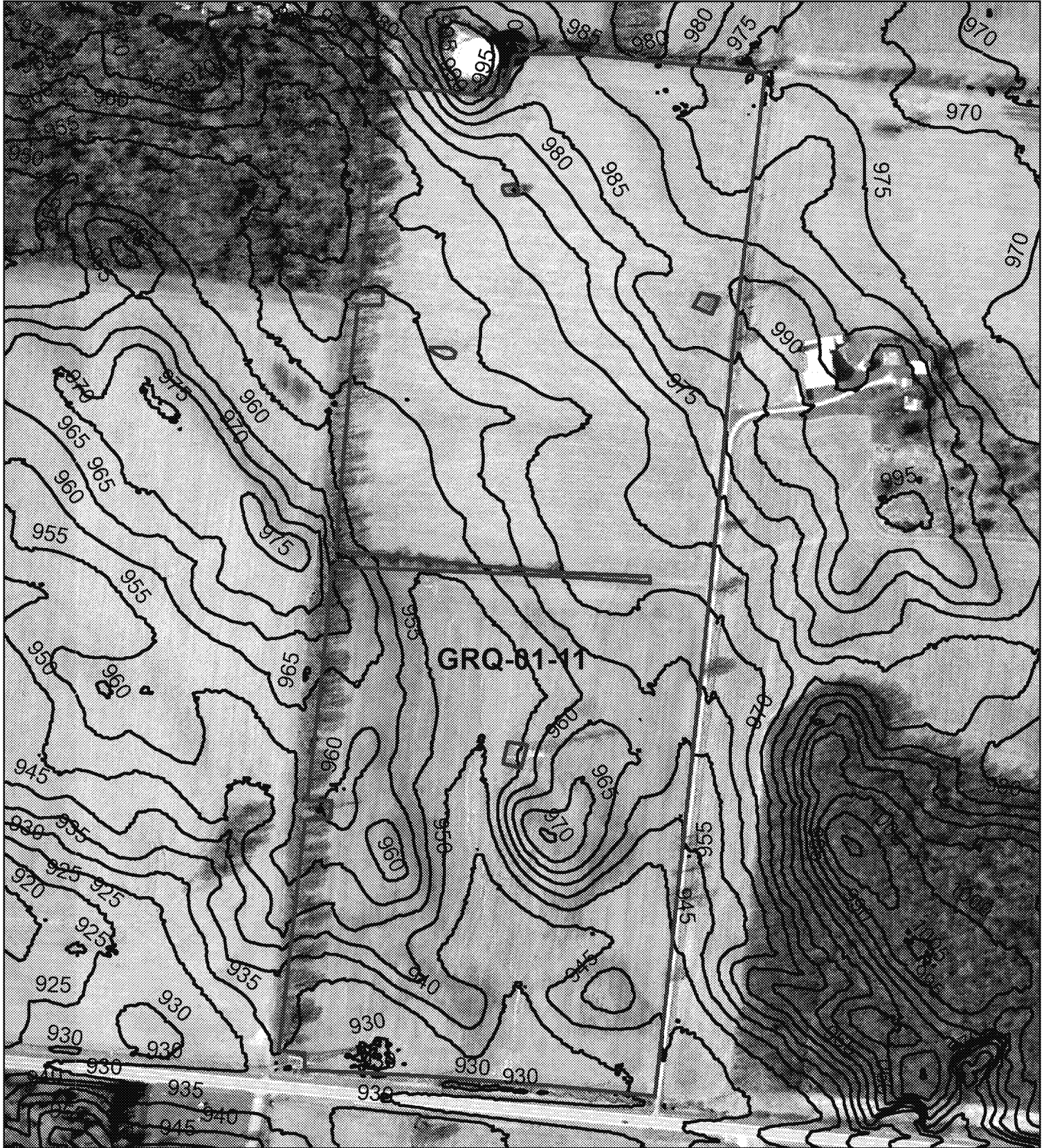


0 75 150 300 Feet

- |  |                    |  |                    |
|--|--------------------|--|--------------------|
|  | Residences         |  | MmE2 Exclusion     |
|  | 100Ft. Res. Buffer |  | Watercourse        |
|  | 300Ft. Res. Buffer |  | 33Ft. Water Buffer |

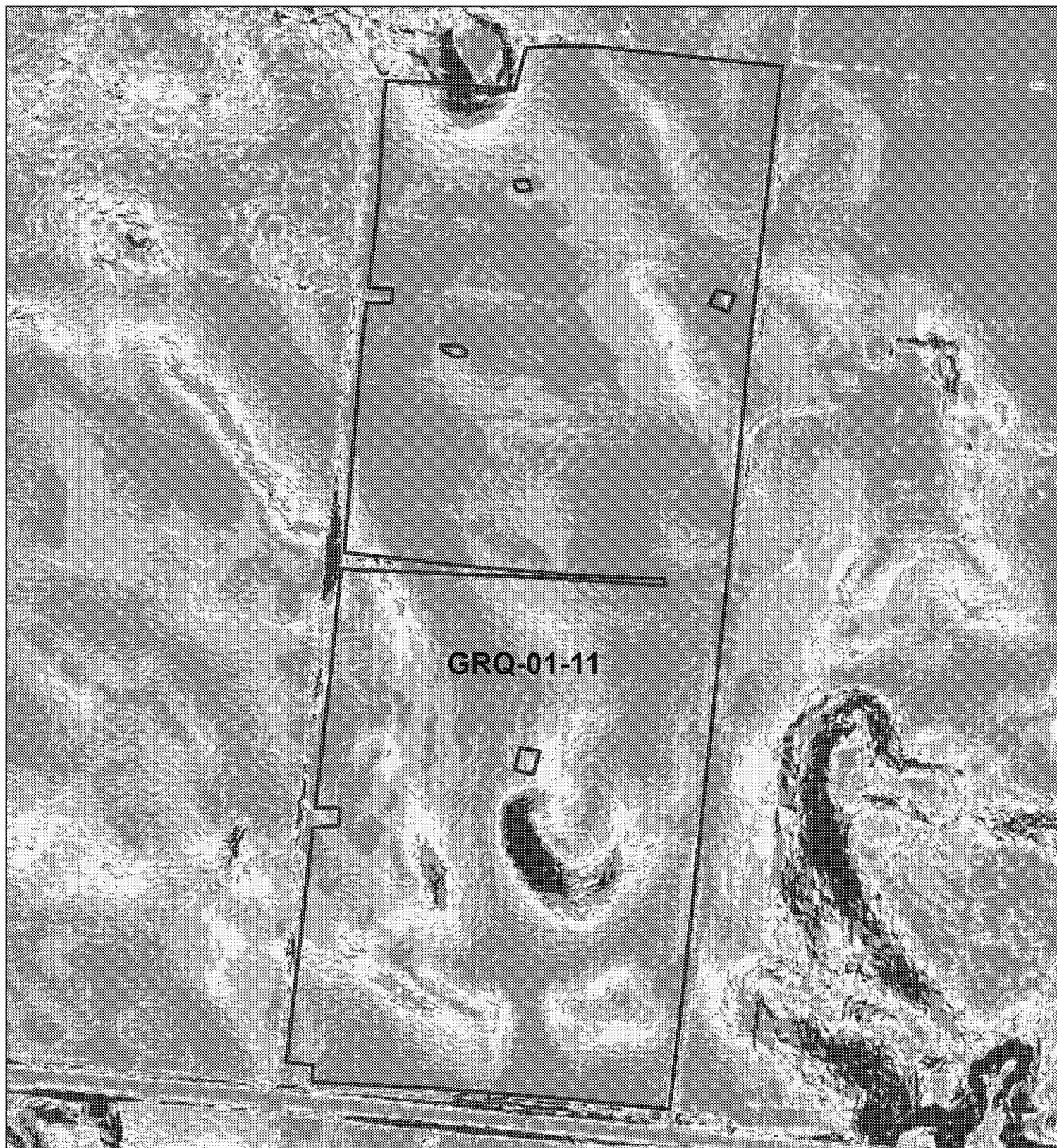
# Pitstick GRQ-01-11

Total Acreage: 54.5



0 75 150 300 Feet

— 5Ft. Contours



0 75 150 300 Feet

Percent Rise	
0 - 5	
5.000000001 - 10	
10.000000001 - 15	
15.000000001 - 20	
20.000000001 - 100	


Custom Soil Resource Report  
Soil Map



# Custom Soil Resource Report


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)


### Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points


### Special Point Features


 Blowout


 Borrow Pit


 Clay Spot


 Closed Depression

 Gravel Pit


 Gravelly Spot


 Landfill


 Lava Flow

 Marsh or swamp


 Mine or Quarry


 Miscellaneous Water


 Perennial Water


 Rock Outcrop


 Saline Spot


 Sandy Spot


 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other


 Special Line Features


### Water Features


 Streams and Canals


### Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Greene County, Ohio  
Survey Area Data: Version 10, Dec 17, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 30, 2010—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Greene County, Ohio (OH057)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EmB	Eldean silt loam, 2 to 6 percent slopes	0.2	0.3%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	23.8	41.7%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	15.7	27.5%
MmD2	Miamian-Casco complex, 12 to 18 percent slopes, moderately eroded	3.6	6.3%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	2.0	3.6%
OcA	Ockley silt loam, 0 to 2 percent slopes	0.5	0.8%
WeB	Wea silt loam, 1 to 3 percent slopes	11.3	19.8%
<b>Totals for Area of Interest</b>		<b>57.0</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified

## Greene County, Ohio

### EmB—Eldean silt loam, 2 to 6 percent slopes

#### Map Unit Setting

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 45 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 151 to 192 days

#### Map Unit Composition

*Eldean and similar soils:* 90 percent

*Minor components:* 10 percent

#### Description of Eldean

##### Setting

*Landform:* Outwash terraces, moraines, kames

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

##### Properties and qualities

*Slope:* 2 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

##### Interpretive groups

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* B

##### Typical profile

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

#### Minor Components

##### Ockley

*Percent of map unit:* 5 percent

*Landform:* Terraces

##### Moderately eroded areas

*Percent of map unit:* 3 percent

##### Loam surface layer

*Percent of map unit:* 2 percent

## **EmB2—Eldean silt loam, 2 to 6 percent slopes, moderately eroded**

### **Map Unit Setting**

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 40 inches

*Mean annual air temperature:* 50 to 54 degrees F

*Frost-free period:* 151 to 192 days

### **Map Unit Composition**

*Eldean and similar soils:* 95 percent

*Minor components:* 5 percent

### **Description of Eldean**

#### **Setting**

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

#### **Properties and qualities**

*Slope:* 2 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

#### **Interpretive groups**

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* B

#### **Typical profile**

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay loam

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### **Minor Components**

#### **Loam surface layer**

*Percent of map unit:* 3 percent

#### **Gravelly loam surface layer**

*Percent of map unit:* 2 percent

## **EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded**

### **Map Unit Setting**

*Elevation:* 670 to 1,160 feet  
*Mean annual precipitation:* 29 to 45 inches  
*Mean annual air temperature:* 50 to 55 degrees F  
*Frost-free period:* 151 to 192 days

### **Map Unit Composition**

*Eldean and similar soils:* 90 percent  
*Minor components:* 10 percent

### **Description of Eldean**

#### **Setting**

*Landform:* Outwash terraces, kames, moraines  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy outwash over sandy and gravelly outwash

#### **Properties and qualities**

*Slope:* 6 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 65 percent  
*Available water capacity:* Low (about 5.5 inches)

#### **Interpretive groups**

*Farmland classification:* Farmland of local importance  
*Land capability (nonirrigated):* 3e  
*Hydrologic Soil Group:* B

#### **Typical profile**

*0 to 13 inches:* Silt loam  
*13 to 33 inches:* Gravelly clay  
*33 to 38 inches:* Very gravelly sandy loam  
*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### **Minor Components**

#### **Casco**

*Percent of map unit:* 5 percent  
*Landform:* Outwash terraces, kames, moraines  
*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

**Loam or gravelly loam surface**

*Percent of map unit:* 3 percent

**Severely eroded areas**

*Percent of map unit:* 2 percent

**MmD2—Miamian-Casco complex, 12 to 18 percent slopes, moderately eroded**

**Map Unit Setting**

*Elevation:* 340 to 1,530 feet

*Mean annual precipitation:* 28 to 45 inches

*Mean annual air temperature:* 46 to 57 degrees F

*Frost-free period:* 135 to 200 days

**Map Unit Composition**

*Miamian and similar soils:* 50 percent

*Casco and similar soils:* 40 percent

*Minor components:* 10 percent

**Description of Miamian**

**Setting**

*Landform:* Moraines, kames

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Loess over loamy till

**Properties and qualities**

*Slope:* 12 to 18 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Available water capacity:* Moderate (about 7.7 inches)

**Interpretive groups**

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 4e

*Hydrologic Soil Group:* C

*Other vegetative classification:* Unnamed (G111BYA-1OH)

**Typical profile**

*0 to 7 inches:* Silt loam  
*7 to 38 inches:* Clay loam  
*38 to 60 inches:* Loam

**Description of Casco**

**Setting**

*Landform:* Kames, moraines  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Loamy alluvium over sandy and gravelly outwash

**Properties and qualities**

*Slope:* 12 to 18 percent  
*Depth to restrictive feature:* 10 to 24 inches to strongly contrasting textural stratification  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 25 percent  
*Available water capacity:* Very low (about 2.4 inches)

**Interpretive groups**

*Farmland classification:* Farmland of local importance  
*Land capability (nonirrigated):* 6e  
*Hydrologic Soil Group:* B

**Typical profile**

*0 to 4 inches:* Loam  
*4 to 20 inches:* Clay loam  
*20 to 60 inches:* Error

**Minor Components**

**Hennepin**

*Percent of map unit:* 5 percent  
*Landform:* Till plains

**Severely eroded areas**

*Percent of map unit:* 5 percent

**MmE2—Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded**

**Map Unit Setting**

*Elevation:* 340 to 1,530 feet

*Mean annual precipitation:* 28 to 45 inches

*Mean annual air temperature:* 46 to 57 degrees F

*Frost-free period:* 135 to 200 days

**Map Unit Composition**

*Miamian and similar soils:* 50 percent

*Casco and similar soils:* 35 percent

*Minor components:* 15 percent

**Description of Miamian**

**Setting**

*Landform:* Kames, moraines

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loess over loamy till

**Properties and qualities**

*Slope:* 18 to 35 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Available water capacity:* Moderate (about 7.7 inches)

**Interpretive groups**

*Farmland classification:* Not prime farmland

*Land capability (nonirrigated):* 7e

*Hydrologic Soil Group:* C

**Typical profile**

*0 to 7 inches:* Silt loam

*7 to 38 inches:* Clay loam

*38 to 60 inches:* Loam

## **Description of Casco**

### **Setting**

*Landform:* Moraines, kames  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy alluvium over sandy and gravelly outwash

### **Properties and qualities**

*Slope:* 18 to 35 percent  
*Depth to restrictive feature:* 10 to 24 inches to strongly contrasting textural stratification  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 25 percent  
*Available water capacity:* Very low (about 2.4 inches)

### **Interpretive groups**

*Farmland classification:* Not prime farmland  
*Land capability (nonirrigated):* 7e  
*Hydrologic Soil Group:* B

### **Typical profile**

*0 to 4 inches:* Loam  
*4 to 20 inches:* Clay loam  
*20 to 60 inches:* Error

## **Minor Components**

### **Rodman**

*Percent of map unit:* 10 percent  
*Landform:* Terraces

### **Silt loam surface layer**

*Percent of map unit:* 5 percent

## **OcA—Ockley silt loam, 0 to 2 percent slopes**

### **Map Unit Setting**

*Elevation:* 400 to 1,000 feet  
*Mean annual precipitation:* 35 to 45 inches  
*Mean annual air temperature:* 46 to 55 degrees F  
*Frost-free period:* 130 to 180 days

### Map Unit Composition

*Ockley and similar soils:* 90 percent

*Minor components:* 10 percent

### Description of Ockley

#### Setting

*Landform:* Stream terraces, outwash plains

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Loess over loamy outwash

#### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Available water capacity:* Moderate (about 7.8 inches)

#### Interpretive groups

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 1

*Hydrologic Soil Group:* B

#### Typical profile

*0 to 10 inches:* Silt loam

*10 to 22 inches:* Silty clay loam

*22 to 45 inches:* Clay loam

*45 to 60 inches:* Stratified gravelly coarse sand to gravelly sand

### Minor Components

#### Eldean

*Percent of map unit:* 5 percent

*Landform:* Outwash terraces, end moraines, kames

#### Rush

*Percent of map unit:* 5 percent

*Landform:* Terraces

## WeB—Wea silt loam, 1 to 3 percent slopes

### Map Unit Setting

*Elevation:* 600 to 1,000 feet

## Custom Soil Resource Report

*Mean annual precipitation:* 35 to 45 inches  
*Mean annual air temperature:* 48 to 55 degrees F  
*Frost-free period:* 150 to 200 days

### Map Unit Composition

*Wea and similar soils:* 85 percent  
*Minor components:* 15 percent

### Description of Wea

#### Setting

*Landform:* Stream terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy outwash over gravelly outwash

#### Properties and qualities

*Slope:* 1 to 3 percent  
*Depth to restrictive feature:* 40 to 60 inches to strongly contrasting textural stratification  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 35 percent  
*Available water capacity:* Moderate (about 8.2 inches)

#### Interpretive groups

*Farmland classification:* All areas are prime farmland  
*Land capability (nonirrigated):* 2e  
*Hydrologic Soil Group:* B

#### Typical profile

*0 to 12 inches:* Silt loam  
*12 to 45 inches:* Clay loam  
*45 to 60 inches:* Gravelly sand

### Minor Components

#### Warsaw

*Percent of map unit:* 4 percent  
*Landform:* Kames, outwash plains, valley trains, terraces

#### Thicker silty subsoil

*Percent of map unit:* 4 percent

#### Ross

*Percent of map unit:* 4 percent  
*Landform:* Flood plains, terraces

#### Loam surface layer

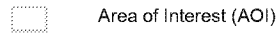
*Percent of map unit:* 3 percent

Custom Soil Resource Report  
Map—Depth to Any Soil Restrictive Layer (GRQ-01-11)



## MAP LEGEND

### Area of Interest (AOI)



Area of Interest (AOI)

### Soils

#### Soil Rating Polygons

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

#### Soil Rating Lines

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200
- Not rated or not available

#### Soil Rating Points

- 0 - 25
- 25 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200

- Not rated or not available

### Water Features

- Streams and Canals

### Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

### Background

- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

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Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

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Date(s) aerial images were photographed: Sep 30, 2010—Mar 10, 2012

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**Table—Depth to Any Soil Restrictive Layer (GRQ-01-11)**

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
EmB	Eldean silt loam, 2 to 6 percent slopes	>200	0.2	0.3%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	>200	23.8	41.7%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	>200	15.7	27.5%
MmD2	Miamian-Casco complex, 12 to 18 percent slopes, moderately eroded	>200	3.6	6.3%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	>200	2.0	3.6%
OcA	Ockley silt loam, 0 to 2 percent slopes	>200	0.5	0.8%
WeB	Wea silt loam, 1 to 3 percent slopes	114	11.3	19.8%
<b>Totals for Area of Interest</b>			<b>57.0</b>	<b>100.0%</b>

**Rating Options—Depth to Any Soil Restrictive Layer (GRQ-01-11)***Units of Measure:* centimeters*Aggregation Method:* Dominant Component*Component Percent Cutoff:* None Specified*Tie-break Rule:* Lower*Interpret Nulls as Zero:* No**Hydrologic Soil Group (GRQ-01-11)**

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:


# Custom Soil Resource Report

## Map—Hydrologic Soil Group (GRQ-01-11)











## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines


 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points






 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
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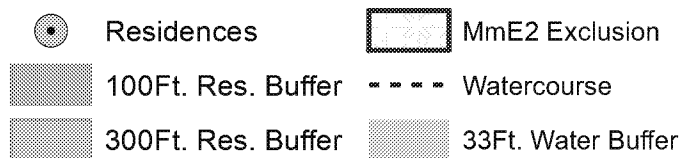
**Table—Hydrologic Soil Group (GRQ-01-11)**

Hydrologic Soil Group— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EmB	Eldean silt loam, 2 to 6 percent slopes	B	0.2	0.3%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	B	23.8	41.7%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	B	15.7	27.5%
MmD2	Miamian-Casco complex, 12 to 18 percent slopes, moderately eroded	C	3.6	6.3%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	C	2.0	3.6%
OcA	Ockley silt loam, 0 to 2 percent slopes	B	0.5	0.8%
WeB	Wea silt loam, 1 to 3 percent slopes	B	11.3	19.8%
<b>Totals for Area of Interest</b>			<b>57.0</b>	<b>100.0%</b>

**Rating Options—Hydrologic Soil Group (GRQ-01-11)***Aggregation Method:* Dominant Condition*Component Percent Cutoff:* None Specified*Tie-break Rule:* Higher

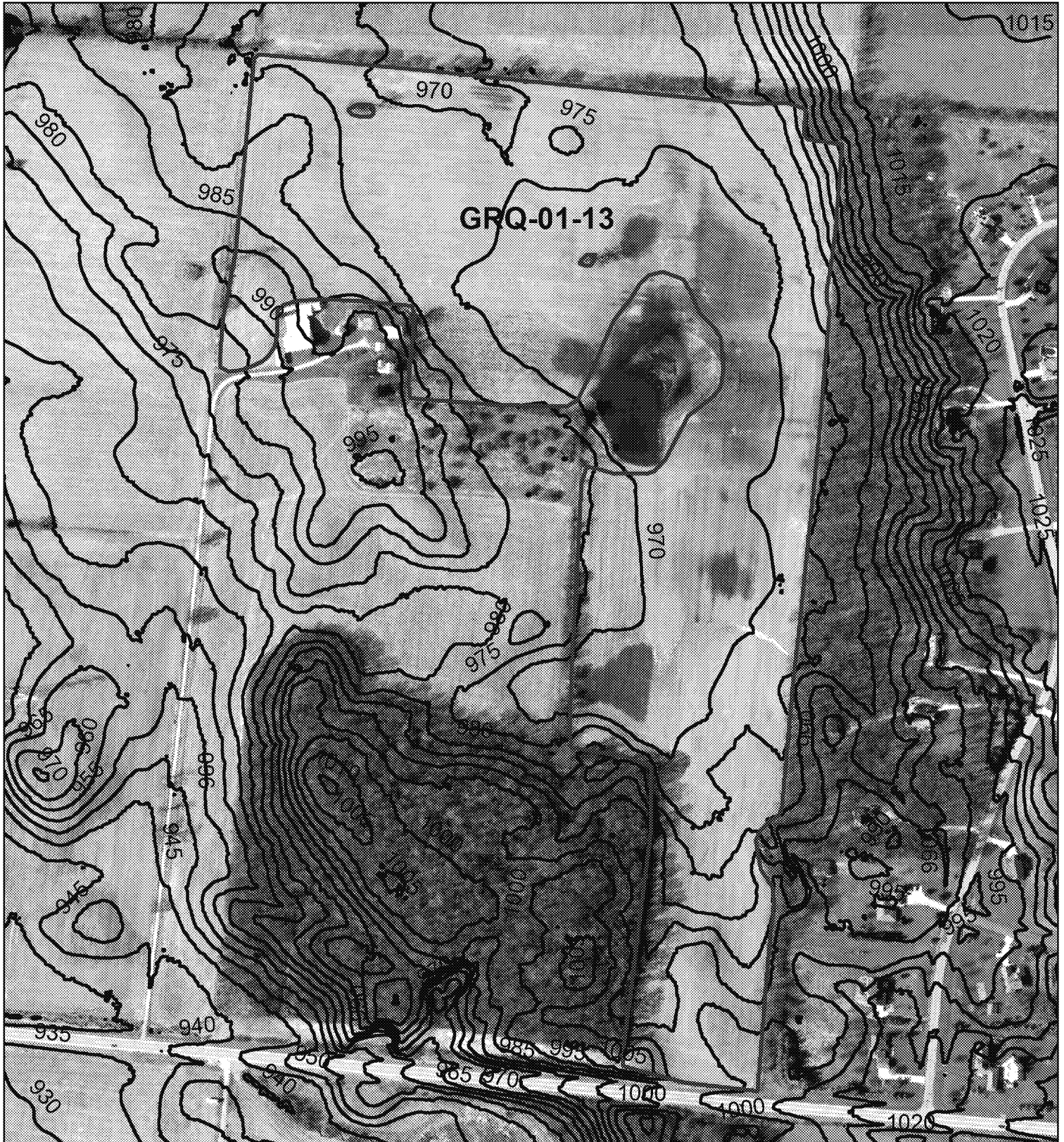


0 75 150 300 Feet



# Pitstick GRQ-01-13

Total Acreage: 45.9

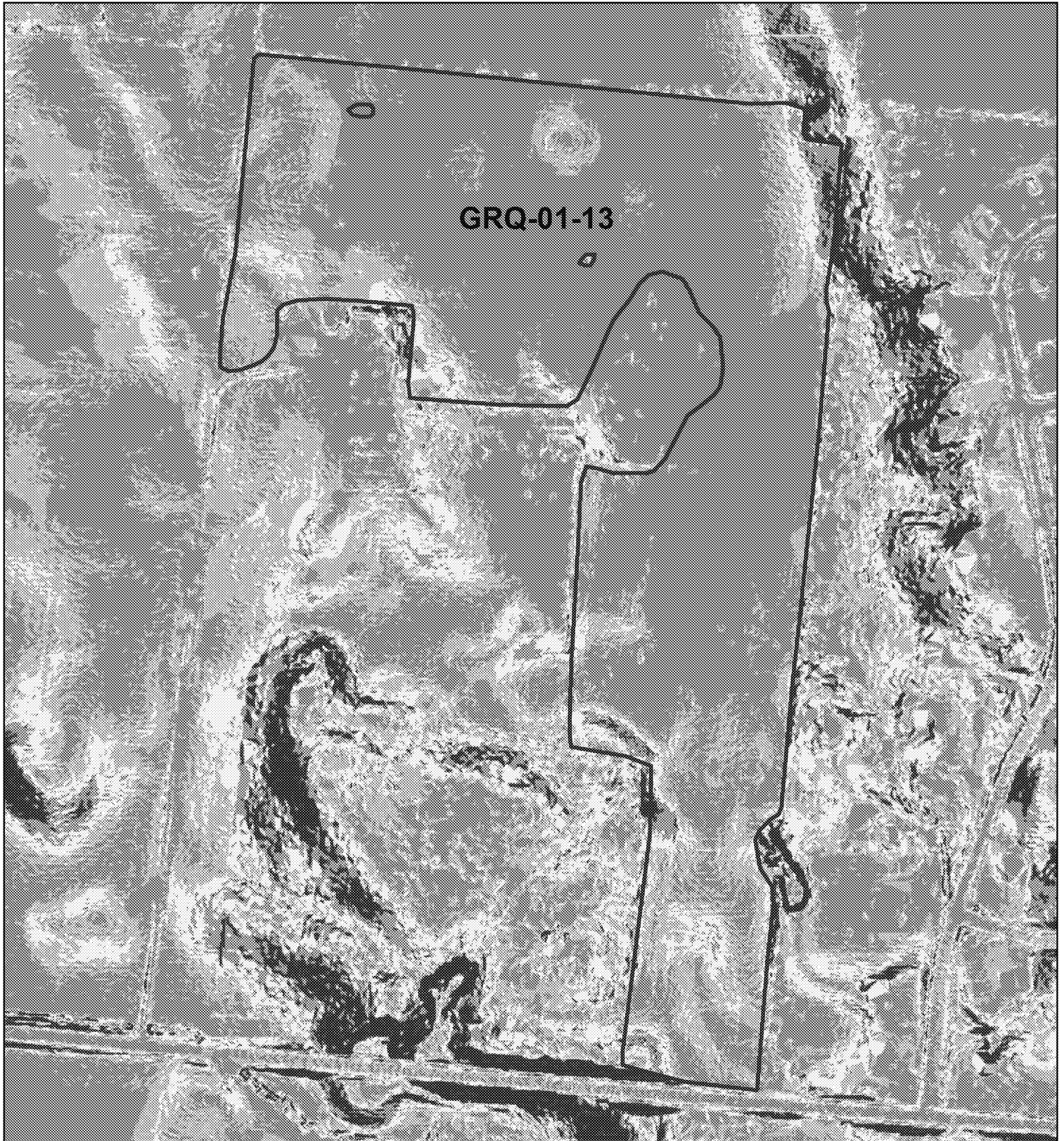


0 75 150 300 Feet

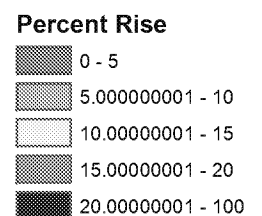
— 5Ft. Contours

# Pitstick GRQ-01-13

Total Acreage: 45.9



0 75 150 300 Feet




# Custom Soil Resource Report Soil Map



# Custom Soil Resource Report


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)


### Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points


### Special Point Features

 Blowout


 Borrow Pit


 Clay Spot


 Closed Depression


 Gravel Pit

 Gravelly Spot


 Landfill


 Lava Flow


 Marsh or swamp


 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot


 Sandy Spot


 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other


 Special Line Features

### Water Features


 Streams and Canals


### Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Greene County, Ohio  
Survey Area Data: Version 10, Dec 17, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 30, 2010—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Greene County, Ohio (OH057)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CcD2	Casco-Eldean loams, 12 to 18 percent slopes, moderately eroded	0.5	1.0%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	6.5	13.8%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	7.7	16.5%
Gn	Genesee loam	21.7	46.4%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	0.4	0.9%
MoB2	Miamian-Eldean silt loams, 2 to 6 percent slopes, moderately eroded	2.9	6.3%
MoC2	Miamian-Eldean silt loams, 6 to 12 percent slopes, moderately eroded	0.9	2.0%
SIA	Sleeth silt loam, 0 to 2 percent slopes	5.6	11.9%
W	Water	0.5	1.2%
<b>Totals for Area of Interest</b>		<b>46.7</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties

## Greene County, Ohio

### CcD2—Casco-Eldean loams, 12 to 18 percent slopes, moderately eroded

#### Map Unit Setting

*Elevation:* 340 to 1,500 feet

*Mean annual precipitation:* 28 to 40 inches

*Mean annual air temperature:* 46 to 57 degrees F

*Frost-free period:* 135 to 200 days

#### Map Unit Composition

*Casco and similar soils:* 50 percent

*Eldean and similar soils:* 35 percent

*Minor components:* 15 percent

#### Description of Casco

##### Setting

*Landform:* Outwash terraces, kames

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy alluvium over sandy and gravelly outwash

##### Properties and qualities

*Slope:* 12 to 18 percent

*Depth to restrictive feature:* 10 to 24 inches to strongly contrasting textural stratification

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 25 percent

*Available water capacity:* Very low (about 2.4 inches)

##### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 6e

*Hydrologic Soil Group:* B

##### Typical profile

*0 to 4 inches:* Loam

*4 to 20 inches:* Clay loam

*20 to 60 inches:* Error

#### Description of Eldean

##### Setting

*Landform:* Outwash terraces, kames

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Linear

*Across-slope shape:* Linear

## Custom Soil Resource Report

*Parent material:* Loamy outwash over sandy and gravelly outwash

### Properties and qualities

*Slope:* 12 to 18 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 4e

*Hydrologic Soil Group:* B

### Typical profile

*0 to 13 inches:* Loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### Minor Components

#### Silt loam surface layer

*Percent of map unit:* 8 percent

#### Gravelly loam surface layer

*Percent of map unit:* 7 percent

## EmB2—Eldean silt loam, 2 to 6 percent slopes, moderately eroded

### Map Unit Setting

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 40 inches

*Mean annual air temperature:* 50 to 54 degrees F

*Frost-free period:* 151 to 192 days

### Map Unit Composition

*Eldean and similar soils:* 95 percent

*Minor components:* 5 percent

### Description of Eldean

#### Setting

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

## Custom Soil Resource Report

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

### Properties and qualities

*Slope:* 2 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

### Interpretive groups

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* B

### Typical profile

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay loam

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### Minor Components

#### Loam surface layer

*Percent of map unit:* 3 percent

#### Gravelly loam surface layer

*Percent of map unit:* 2 percent

## EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded

### Map Unit Setting

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 45 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 151 to 192 days

### Map Unit Composition

*Eldean and similar soils:* 90 percent

*Minor components:* 10 percent

### Description of Eldean

#### Setting

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

## Custom Soil Resource Report

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

### Properties and qualities

*Slope:* 6 to 12 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 3e

*Hydrologic Soil Group:* B

### Typical profile

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### Minor Components

#### Casco

*Percent of map unit:* 5 percent

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

#### Loam or gravelly loam surface

*Percent of map unit:* 3 percent

#### Severely eroded areas

*Percent of map unit:* 2 percent

## Gn—Genesee loam

### Map Unit Setting

*Elevation:* 340 to 1,000 feet

*Mean annual precipitation:* 30 to 46 inches

*Mean annual air temperature:* 50 to 57 degrees F

*Frost-free period:* 140 to 210 days

### Map Unit Composition

*Genesee and similar soils:* 80 percent

*Minor components:* 20 percent

## Description of Genesee

### Setting

*Landform:* Flood plains

*Parent material:* Loamy alluvium

### Properties and qualities

*Slope:* 0 to 2 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* Frequent

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Available water capacity:* High (about 10.7 inches)

### Interpretive groups

*Farmland classification:* Prime farmland if drained and either protected from flooding  
or not frequently flooded during the growing season

*Land capability (nonirrigated):* 2w

*Hydrologic Soil Group:* B

### Typical profile

*0 to 10 inches:* Loam

*10 to 36 inches:* Loam

*36 to 66 inches:* Stratified fine sandy loam to silt loam

## Minor Components

### Sloan

*Percent of map unit:* 5 percent

*Landform:* Swales, oxbows

### Eel

*Percent of map unit:* 5 percent

*Landform:* Flood-plain steps, flood plains

### Ross

*Percent of map unit:* 5 percent

*Landform:* Terraces, flood plains

### Sandier soils

*Percent of map unit:* 3 percent

### Silt loam surface layer

*Percent of map unit:* 2 percent

**MmE2—Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded**

**Map Unit Setting**

*Elevation: 340 to 1,530 feet*

*Mean annual precipitation: 28 to 45 inches*

*Mean annual air temperature: 46 to 57 degrees F*

*Frost-free period: 135 to 200 days*

**Map Unit Composition**

*Miamian and similar soils: 50 percent*

*Casco and similar soils: 35 percent*

*Minor components: 15 percent*

**Description of Miamian**

**Setting**

*Landform: Kames, moraines*

*Landform position (two-dimensional): Backslope*

*Landform position (three-dimensional): Side slope*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Parent material: Loess over loamy till*

**Properties and qualities**

*Slope: 18 to 35 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Well drained*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 50 percent*

*Available water capacity: Moderate (about 7.7 inches)*

**Interpretive groups**

*Farmland classification: Not prime farmland*

*Land capability (nonirrigated): 7e*

*Hydrologic Soil Group: C*

**Typical profile**

*0 to 7 inches: Silt loam*

*7 to 38 inches: Clay loam*

*38 to 60 inches: Loam*

**Description of Casco**

**Setting**

*Landform: Moraines, kames*

## Custom Soil Resource Report

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy alluvium over sandy and gravelly outwash

### Properties and qualities

*Slope:* 18 to 35 percent

*Depth to restrictive feature:* 10 to 24 inches to strongly contrasting textural stratification

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 25 percent

*Available water capacity:* Very low (about 2.4 inches)

### Interpretive groups

*Farmland classification:* Not prime farmland

*Land capability (nonirrigated):* 7e

*Hydrologic Soil Group:* B

### Typical profile

*0 to 4 inches:* Loam

*4 to 20 inches:* Clay loam

*20 to 60 inches:* Error

### Minor Components

#### Rodman

*Percent of map unit:* 10 percent

*Landform:* Terraces

#### Silt loam surface layer

*Percent of map unit:* 5 percent

## MoB2—Miamian-Eldean silt loams, 2 to 6 percent slopes, moderately eroded

### Map Unit Setting

*Elevation:* 670 to 1,530 feet

*Mean annual precipitation:* 29 to 45 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 151 to 192 days

### Map Unit Composition

*Miamian and similar soils:* 40 percent

*Eldean and similar soils:* 30 percent

## Custom Soil Resource Report

*Minor components: 30 percent*

### Description of Miamian

#### Setting

*Landform: End moraines*  
*Landform position (two-dimensional): Summit*  
*Landform position (three-dimensional): Interfluve*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Loess over loamy till*

#### Properties and qualities

*Slope: 2 to 6 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Drainage class: Well drained*  
*Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 50 percent*  
*Available water capacity: Moderate (about 7.7 inches)*

#### Interpretive groups

*Farmland classification: All areas are prime farmland*  
*Land capability (nonirrigated): 2e*  
*Hydrologic Soil Group: C*  
*Other vegetative classification: Unnamed (G111BYA-1OH)*

#### Typical profile

*0 to 7 inches: Silt loam*  
*7 to 38 inches: Clay loam*  
*38 to 60 inches: Loam*

### Description of Eldean

#### Setting

*Landform: End moraines*  
*Landform position (two-dimensional): Summit*  
*Landform position (three-dimensional): Interfluve*  
*Down-slope shape: Convex*  
*Across-slope shape: Linear*  
*Parent material: Loamy outwash over sandy and gravelly outwash*

#### Properties and qualities

*Slope: 2 to 6 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Drainage class: Well drained*  
*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 65 percent*  
*Available water capacity: Low (about 5.5 inches)*

**Interpretive groups**

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* B

**Typical profile**

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified very gravelly loamy coarse sand to sand

**Minor Components**

**Casco**

*Percent of map unit:* 15 percent

*Landform:* Moraines

**Hennepin**

*Percent of map unit:* 15 percent

*Landform:* Till plains

**MoC2—Miamian-Eldean silt loams, 6 to 12 percent slopes, moderately eroded**

**Map Unit Setting**

*Elevation:* 670 to 1,530 feet

*Mean annual precipitation:* 29 to 45 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 151 to 192 days

**Map Unit Composition**

*Miamian and similar soils:* 40 percent

*Eldean and similar soils:* 30 percent

*Minor components:* 30 percent

**Description of Miamian**

**Setting**

*Landform:* End moraines

*Landform position (two-dimensional):* Footslope, shoulder

*Landform position (three-dimensional):* Crest, side slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Loess over loamy till

**Properties and qualities**

*Slope:* 6 to 12 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

## Custom Soil Resource Report

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Available water capacity:* Moderate (about 7.7 inches)

### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 3e

*Hydrologic Soil Group:* C

*Other vegetative classification:* Unnamed (G111BYA-1OH)

### Typical profile

*0 to 7 inches:* Silt loam

*7 to 38 inches:* Clay loam

*38 to 60 inches:* Loam

## Description of Eldean

### Setting

*Landform:* End moraines

*Landform position (two-dimensional):* Shoulder, footslope

*Landform position (three-dimensional):* Crest, side slope

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Loamy outwash over sandy and gravelly outwash

### Properties and qualities

*Slope:* 6 to 12 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 3e

*Hydrologic Soil Group:* B

### Typical profile

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

## Minor Components

### Hennepin

*Percent of map unit:* 15 percent

*Landform:* Till plains

**Casco**

*Percent of map unit: 15 percent*

*Landform: Moraines*

**SIA—Sleeth silt loam, 0 to 2 percent slopes**

**Map Unit Setting**

*Elevation: 400 to 1,000 feet*

*Mean annual precipitation: 35 to 45 inches*

*Mean annual air temperature: 48 to 55 degrees F*

*Frost-free period: 130 to 210 days*

**Map Unit Composition**

*Sleeth and similar soils: 85 percent*

*Minor components: 15 percent*

**Description of Sleeth**

**Setting**

*Landform: Stream terraces, outwash terraces, outwash plains*

*Parent material: Loamy outwash over sandy and gravelly outwash*

**Properties and qualities**

*Slope: 0 to 2 percent*

*Depth to restrictive feature: More than 80 inches*

*Drainage class: Somewhat poorly drained*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high  
(0.60 to 2.00 in/hr)*

*Depth to water table: About 6 to 18 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 30 percent*

*Available water capacity: Moderate (about 7.8 inches)*

**Interpretive groups**

*Farmland classification: Prime farmland if drained*

*Land capability (nonirrigated): 2w*

*Hydrologic Soil Group: B/D*

**Typical profile**

*0 to 10 inches: Silt loam*

*10 to 24 inches: Silty clay loam*

*24 to 52 inches: Clay loam*

*52 to 60 inches: Stratified sand to gravelly coarse sandy loam*

**Minor Components**

**Areas with till substratum**

*Percent of map unit: 5 percent*

**Westland**

*Percent of map unit:* 5 percent

*Landform:* Depressions

**Thackery**

*Percent of map unit:* 5 percent

*Landform:* Stream terraces, outwash plains

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

**W—Water**

**Map Unit Composition**

*Water:* 100 percent


# Custom Soil Resource Report

## Map—Depth to Any Soil Restrictive Layer (GRQ-01-13)










## MAP LEGEND

### Area of Interest (AOI)








 Area of Interest (AOI)

### Soils







#### Soil Rating Polygons


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

#### Soil Rating Lines


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

#### Soil Rating Points






-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200

 Not rated or not available


### Water Features

 Streams and Canals

### Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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Please rely on the bar scale on each map sheet for map measurements.

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Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

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This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Greene County, Ohio  
Survey Area Data: Version 10, Dec 17, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 30, 2010—Mar 10, 2012

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

**Table—Depth to Any Soil Restrictive Layer (GRQ-01-13)**

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
CcD2	Casco-Eldean loams, 12 to 18 percent slopes, moderately eroded	51	0.5	1.0%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	>200	6.5	13.8%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	>200	7.7	16.5%
Gn	Genesee loam	>200	21.7	46.4%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	>200	0.4	0.9%
MoB2	Miamian-Eldean silt loams, 2 to 6 percent slopes, moderately eroded	>200	2.9	6.3%
MoC2	Miamian-Eldean silt loams, 6 to 12 percent slopes, moderately eroded	>200	0.9	2.0%
SIA	Sleeth silt loam, 0 to 2 percent slopes	>200	5.6	11.9%
W	Water	>200	0.5	1.2%
<b>Totals for Area of Interest</b>			<b>46.7</b>	<b>100.0%</b>

**Rating Options—Depth to Any Soil Restrictive Layer (GRQ-01-13)***Units of Measure:* centimeters*Aggregation Method:* Dominant Component*Component Percent Cutoff:* None Specified*Tie-break Rule:* Lower*Interpret Nulls as Zero:* No**Hydrologic Soil Group (GRQ-01-13)**

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.


# Custom Soil Resource Report

## Map—Hydrologic Soil Group (GRQ-01-13)











## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines


 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points






 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available


### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
 Coordinate System: Web Mercator (EPSG:3857)

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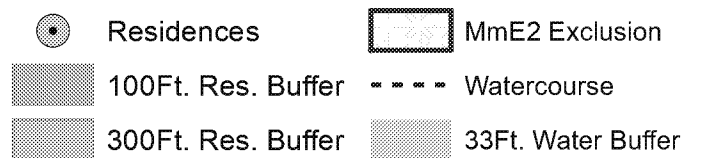
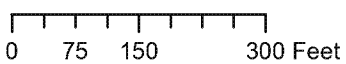
**Table—Hydrologic Soil Group (GRQ-01-13)**

Hydrologic Soil Group— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
CcD2	Casco-Eldean loams, 12 to 18 percent slopes, moderately eroded	B	0.5	1.0%
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	B	6.5	13.8%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	B	7.7	16.5%
Gn	Genesee loam	B	21.7	46.4%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	C	0.4	0.9%
MoB2	Miamian-Eldean silt loams, 2 to 6 percent slopes, moderately eroded	C	2.9	6.3%
MoC2	Miamian-Eldean silt loams, 6 to 12 percent slopes, moderately eroded	C	0.9	2.0%
SIA	Sleeth silt loam, 0 to 2 percent slopes	B/D	5.6	11.9%
W	Water		0.5	1.2%
<b>Totals for Area of Interest</b>			<b>46.7</b>	<b>100.0%</b>

**Rating Options—Hydrologic Soil Group (GRQ-01-13)***Aggregation Method:* Dominant Condition*Component Percent Cutoff:* None Specified*Tie-break Rule:* Higher

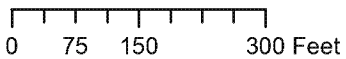
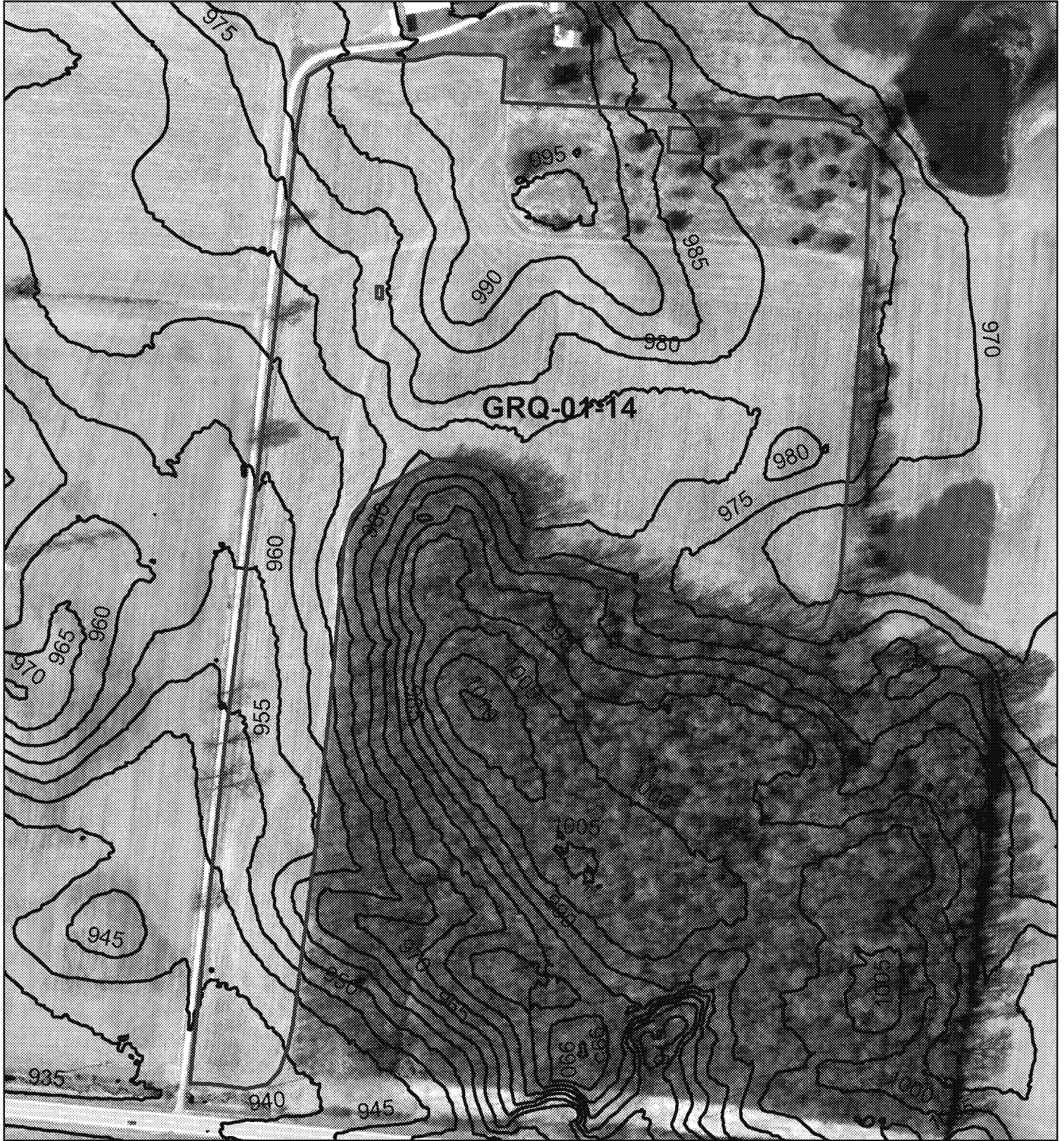
# Pitstick GRQ-01-14

Total Acreage: 20.7

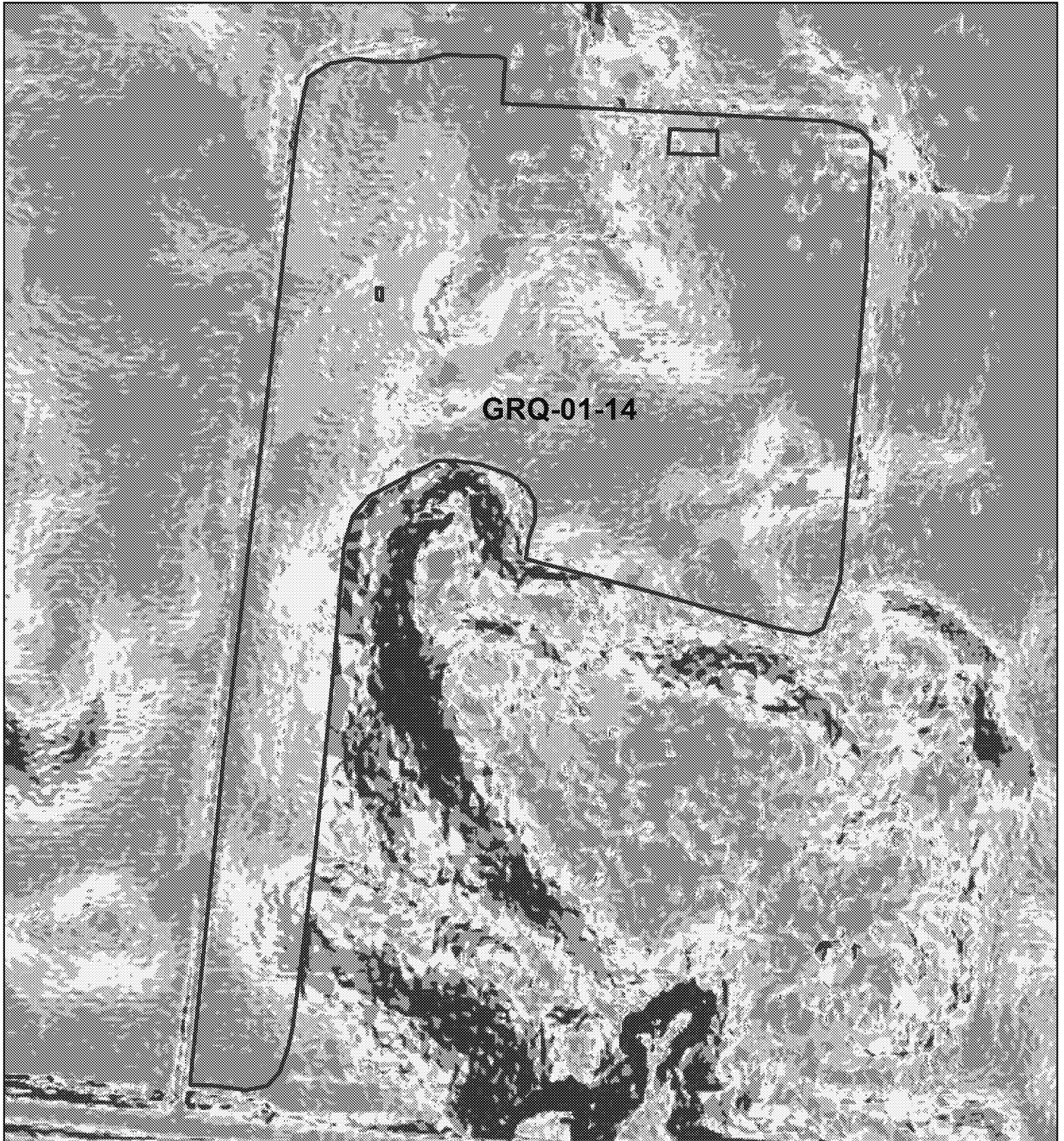


# Pitstick GRQ-01-14

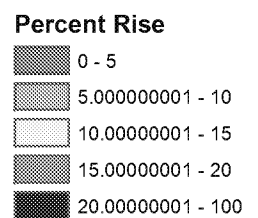
Total Acreage: 20.7



— 5Ft. Contours



0 75 150 300 Feet




# Custom Soil Resource Report Soil Map



# Custom Soil Resource Report


## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)


### Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points


### Special Point Features

 Blowout


 Borrow Pit


 Clay Spot


 Closed Depression


 Gravel Pit

 Gravelly Spot


 Landfill


 Lava Flow


 Marsh or swamp


 Mine or Quarry

 Miscellaneous Water


 Perennial Water


 Rock Outcrop


 Saline Spot


 Sandy Spot


 Severely Eroded Spot


 Sinkhole


 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

### Water Features


 Streams and Canals


### Transportation

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 Major Roads

 Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

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Survey Area Data: Version 10, Dec 17, 2013

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Date(s) aerial images were photographed: Sep 30, 2010—Mar 10, 2012

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## Map Unit Legend

Greene County, Ohio (OH057)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	7.6	40.6%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	10.4	55.5%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	0.1	0.3%
WeB	Wea silt loam, 1 to 3 percent slopes	0.7	3.6%
<b>Totals for Area of Interest</b>		<b>18.7</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

## Greene County, Ohio

### EmB2—Eldean silt loam, 2 to 6 percent slopes, moderately eroded

#### Map Unit Setting

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 40 inches

*Mean annual air temperature:* 50 to 54 degrees F

*Frost-free period:* 151 to 192 days

#### Map Unit Composition

*Eldean and similar soils:* 95 percent

*Minor components:* 5 percent

#### Description of Eldean

##### Setting

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

##### Properties and qualities

*Slope:* 2 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

##### Interpretive groups

*Farmland classification:* All areas are prime farmland

*Land capability (nonirrigated):* 2e

*Hydrologic Soil Group:* B

##### Typical profile

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay loam

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

#### Minor Components

##### Loam surface layer

*Percent of map unit:* 3 percent

##### Gravelly loam surface layer

*Percent of map unit:* 2 percent

## **EmC2—Eldean silt loam, 6 to 12 percent slopes, moderately eroded**

### **Map Unit Setting**

*Elevation:* 670 to 1,160 feet

*Mean annual precipitation:* 29 to 45 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 151 to 192 days

### **Map Unit Composition**

*Eldean and similar soils:* 90 percent

*Minor components:* 10 percent

### **Description of Eldean**

#### **Setting**

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy outwash over sandy and gravelly outwash

#### **Properties and qualities**

*Slope:* 6 to 12 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
(0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 65 percent

*Available water capacity:* Low (about 5.5 inches)

#### **Interpretive groups**

*Farmland classification:* Farmland of local importance

*Land capability (nonirrigated):* 3e

*Hydrologic Soil Group:* B

#### **Typical profile**

*0 to 13 inches:* Silt loam

*13 to 33 inches:* Gravelly clay

*33 to 38 inches:* Very gravelly sandy loam

*38 to 60 inches:* Stratified sand to very gravelly loamy coarse sand

### **Minor Components**

#### **Casco**

*Percent of map unit:* 5 percent

*Landform:* Outwash terraces, kames, moraines

*Landform position (three-dimensional):* Tread

*Down-slope shape:* Linear

*Across-slope shape:* Linear

**Loam or gravelly loam surface**

*Percent of map unit:* 3 percent

**Severely eroded areas**

*Percent of map unit:* 2 percent

**MmE2—Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded**

**Map Unit Setting**

*Elevation:* 340 to 1,530 feet

*Mean annual precipitation:* 28 to 45 inches

*Mean annual air temperature:* 46 to 57 degrees F

*Frost-free period:* 135 to 200 days

**Map Unit Composition**

*Miamian and similar soils:* 50 percent

*Casco and similar soils:* 35 percent

*Minor components:* 15 percent

**Description of Miamian**

**Setting**

*Landform:* Kames, moraines

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loess over loamy till

**Properties and qualities**

*Slope:* 18 to 35 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 50 percent

*Available water capacity:* Moderate (about 7.7 inches)

**Interpretive groups**

*Farmland classification:* Not prime farmland

*Land capability (nonirrigated):* 7e

*Hydrologic Soil Group:* C

**Typical profile**

*0 to 7 inches:* Silt loam

## Custom Soil Resource Report

7 to 38 inches: Clay loam

38 to 60 inches: Loam

### Description of Casco

#### Setting

*Landform:* Moraines, kames

*Landform position (two-dimensional):* Backslope

*Landform position (three-dimensional):* Side slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loamy alluvium over sandy and gravelly outwash

#### Properties and qualities

*Slope:* 18 to 35 percent

*Depth to restrictive feature:* 10 to 24 inches to strongly contrasting textural stratification

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 25 percent

*Available water capacity:* Very low (about 2.4 inches)

#### Interpretive groups

*Farmland classification:* Not prime farmland

*Land capability (nonirrigated):* 7e

*Hydrologic Soil Group:* B

#### Typical profile

0 to 4 inches: Loam

4 to 20 inches: Clay loam

20 to 60 inches: Error

### Minor Components

#### Rodman

*Percent of map unit:* 10 percent

*Landform:* Terraces

#### Silt loam surface layer

*Percent of map unit:* 5 percent

## WeB—Wea silt loam, 1 to 3 percent slopes

### Map Unit Setting

*Elevation:* 600 to 1,000 feet

*Mean annual precipitation:* 35 to 45 inches

*Mean annual air temperature:* 48 to 55 degrees F

## Custom Soil Resource Report

*Frost-free period: 150 to 200 days*

### Map Unit Composition

*Wea and similar soils: 85 percent*

*Minor components: 15 percent*

### Description of Wea

#### Setting

*Landform: Stream terraces*

*Landform position (three-dimensional): Tread*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Parent material: Loamy outwash over gravelly outwash*

#### Properties and qualities

*Slope: 1 to 3 percent*

*Depth to restrictive feature: 40 to 60 inches to strongly contrasting textural stratification*

*Drainage class: Well drained*

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)*

*Depth to water table: More than 80 inches*

*Frequency of flooding: None*

*Frequency of ponding: None*

*Calcium carbonate, maximum content: 35 percent*

*Available water capacity: Moderate (about 8.2 inches)*

#### Interpretive groups

*Farmland classification: All areas are prime farmland*

*Land capability (nonirrigated): 2e*

*Hydrologic Soil Group: B*

#### Typical profile

*0 to 12 inches: Silt loam*

*12 to 45 inches: Clay loam*

*45 to 60 inches: Gravelly sand*

### Minor Components

#### Warsaw

*Percent of map unit: 4 percent*

*Landform: Kames, outwash plains, valley trains, terraces*

#### Thicker silty subsoil

*Percent of map unit: 4 percent*

#### Ross

*Percent of map unit: 4 percent*

*Landform: Flood plains, terraces*

#### Loam surface layer


*Percent of map unit: 3 percent*

Custom Soil Resource Report  
Map—Depth to Any Soil Restrictive Layer (GRQ-01-14)










## MAP LEGEND

### Area of Interest (AOI)








 Area of Interest (AOI)

### Soils







#### Soil Rating Polygons


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

#### Soil Rating Lines


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

#### Soil Rating Points






-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200

 Not rated or not available


### Water Features

 Streams and Canals

### Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

### Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

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Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

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**Table—Depth to Any Soil Restrictive Layer (GRQ-01-14)**

Depth to Any Soil Restrictive Layer— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	>200	7.6	40.6%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	>200	10.4	55.5%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	>200	0.1	0.3%
WeB	Wea silt loam, 1 to 3 percent slopes	114	0.7	3.6%
<b>Totals for Area of Interest</b>			<b>18.7</b>	<b>100.0%</b>

**Rating Options—Depth to Any Soil Restrictive Layer (GRQ-01-14)**

*Units of Measure:* centimeters

*Aggregation Method:* Dominant Component

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Lower

*Interpret Nulls as Zero:* No

**Hydrologic Soil Group (GRQ-01-14)**

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.


Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Custom Soil Resource Report  
Map—Hydrologic Soil Group (GRQ-01-14)











## MAP LEGEND

### Area of Interest (AOI)









 Area of Interest (AOI)

### Soils

#### Soil Rating Polygons





 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Lines


 A  
 A/D  
 B  
 B/D  
 C  
 C/D  
 D  
 Not rated or not available

#### Soil Rating Points






 A  
 A/D  
 B  
 B/D

 C  
 C/D  
 D  
 Not rated or not available

### Water Features

 Streams and Canals

### Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

### Background

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## MAP INFORMATION

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**Table—Hydrologic Soil Group (GRQ-01-14)**

Hydrologic Soil Group— Summary by Map Unit — Greene County, Ohio (OH057)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
EmB2	Eldean silt loam, 2 to 6 percent slopes, moderately eroded	B	7.6	40.6%
EmC2	Eldean silt loam, 6 to 12 percent slopes, moderately eroded	B	10.4	55.5%
MmE2	Miamian-Casco complex, 18 to 35 percent slopes, moderately eroded	C	0.1	0.3%
WeB	Wea silt loam, 1 to 3 percent slopes	B	0.7	3.6%
<b>Totals for Area of Interest</b>			<b>18.7</b>	<b>100.0%</b>

**Rating Options—Hydrologic Soil Group (GRQ-01-14)**

*Aggregation Method:* Dominant Condition

*Component Percent Cutoff:* None Specified

*Tie-break Rule:* Higher